



WEB APPLICATION FIREWALL

# FortiWeb RESTful API Reference

**VERSION 5.4**

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FortiWeb 5.4 RESTful API Reference

1st Edition

# TABLE OF CONTENTS

FortiWeb RESTful API overview .....	4
REST principles .....	4
Response format .....	4
Accessing the RESTful API .....	4
Supported API methods .....	4
URL format .....	7
Authentication .....	7
Specifying resources .....	8
Examples of changing settings .....	34
Retrieve all static routes (GET) .....	34
Create a new static route (POST) .....	35
Update an existing static route (PUT) .....	35
Delete an existing static route (DELETE) .....	36
Request failures .....	37
Unsupported method .....	37
Other failure .....	37

## FortiWeb RESTful API overview

FortiWeb provides an API that uses Representational State Transfer design principles (RESTful API) to access and modify the settings of individual FortiWeb appliances.

## REST principles

Programs communicate with the RESTful API over HTTPS, the same protocol that your web browser uses to interact securely with web pages.

The RESTful API is based on interactions with a web page. Data is treated like a static web page.

- Add data by POSTing a web page
- Fetch data by GETing a web page
- Update data by PUTing a web page
- Delete data by DELETEing a web page

After it receives the request, the FortiWeb API returns an HTTP response code. These codes are discussed later in this reference.

## Response format

The FortiWeb RESTful API provides responses in JSON format.

## Accessing the RESTful API

You can access the FortiWeb API from most browsers using the GET method.

However, many browsers require add-ons for extended operations such as PUT. You can make more complicated, scripted queries using utilities such as cURL. In addition, most scripting languages such as Perl or Python have built-in library calls that can interact with a RESTful API.

The examples in this document make requests using cURL. cURL is more flexible than using a browser alone, works across platforms, and most scripts can call it. It is not as flexible as native scripting languages, but it is useful for illustrating how the API functions.

## Supported API methods

The FortiWeb RESTful API supports the following methods.

Method	URI	Operation description	Success response code
GET	/<resource_name>/	Retrieves all records	200 OK
			401 Unauthorized
			404 Not Found
			405 Not Allowed
			500 Internal Server Error
	/<resource_name>/<resource_id>	Retrieves the specified record	200 OK
			401 Unauthorized
			404 Not Found
	/<resource_name>/<resource_id>/<sub_resource_name>	Retrieves all sub-records	405 Not Allowed
			500 Internal Server Error
			200 OK
			401 Unauthorized
			404 Not Found
	/<resource_name>/<resource_id>/<sub_resource_name>/<sub_resource_id>	Retrieves the specified sub-record	405 Not Allowed
			500 Internal Server Error
			200 OK

Method	URI	Operation description	Success response code
POST	/<resource_name>/	Creates a new record	200 OK 401 Unauthorized 404 Not Found 405 Not Allowed 500 Internal Server Error
	/<resource_name>/<resource_id>/<sub_resource_name>	Creates a new sub-record	200 OK 401 Unauthorized 404 Not Found 405 Not Allowed 500 Internal Server Error
PUT	/<resource_name>/<resource_id>	Updates the specified record	200 OK 401 Unauthorized 404 Not Found 405 Not Allowed 500 Internal Server Error
	/<resource_name>/<resource_id>/<sub_resource_name>/<sub_resource_id>	Updates the specified sub-record	200 OK 401 Unauthorized 404 Not Found 405 Not Allowed 500 Internal Server Error

Method	URI	Operation description	Success response code
DELETE	/<resource_name>/<resource_id>	Deletes the specified record	200 OK 401 Unauthorized 404 Not Found 405 Not Allowed 500 Internal Server Error
	/<resource_name>/<resource_id>/<sub_resource_name>/<sub_resource_id>	Deletes the specified sub-record	200 OK 401 Unauthorized 404 Not Found 405 Not Allowed 500 Internal Server Error

## URL format

The URLs that you use to access gateways and gateway managers use the following format:

```
https://<server_name>/api/<api_version>/<resource_name>/[<resource_id>]/[<sub_resource_name>]/[<sub_resource_id>]
```

where:

- <server\_name> is the name or IP address of a FortiWeb with a port value of 90.
- <api\_version> is the API version (for example, v1.0)
- <resource\_name> is the name of the FortiWeb setting
- <resource\_id> is a unique identifier for the FortiWeb setting (for example, an index number or the name of a virtual server or policy)
- <sub\_resource\_name> is the name of the FortiWeb sub-setting
- <resource\_id> is a unique identifier for a FortiWeb sub-setting

For more information on the <resource\_name> and <sub\_resource\_name> values, see [Specifying resources on page 8](#).

## Authentication

The RESTful API HTTPS requests require an authorization value. Use the username and password encoded using base 64.

For example, the username `admin` and an empty password (the default):

Authorization: YWRtaW46

You can use the API to configure user passwords on a FortiWeb.

## Specifying resources

Currently, you can use the API to access the following resources.

Resource name	Sub-resource name	Supported methods	Web UI location
System/Status/Status	—	GET	System > Status > Status
System/Status/PolicyStats?policy=<policy_name>	—	GET	System > Status > Policy Status
System/Status/SystemResources	—	GET	System > Status > Status
System/Status/StatusOperation	—	GET	System > Status > Status
System/Status/StatusOperationReboot	—	POST	System > Status > Status
System/Status/StatusOperationReset	—	POST	System > Status > Status
System/Status/StatusOperationShutdown	—	POST	System > Status > Status
System/Status/AdministrativeDomain	—	POST	System > Status > Status
System/Status/VMLicenseUpload	—	POST	System > Status > Status
System/Status/VMLicense	—	POST	System > Status > Status
System/Status/HostName	—	GET, POST	System > Status > Status
System/Network/Interface	—	GET, POST, PUT, DELETE	System > Network > Interface



Resource name	Sub-resource name	Supported methods	Web UI location
System/Network/ InterfaceType	—	GET	System > Network > Interface
System/Network/InterfaceList	—	GET	System > Network > Interface
System/Network/ SnmpInterfaceList	—	GET	System > Network > Interface
System/Network/ StaticRoute	—	GET, POST, PUT, DELETE	System > Network > Static Route
System/Network/ RoutePortList	—	GET	System > Network > Static Route
System/Network/ PolicyRoute	—	GET, POST, PUT, DELETE	System > Network > Policy Route
System/Network/DNS	—	GET, PUT	System > Network > DNS
System/Network/FailOpen	—	GET, POST, PUT	
System/Network/Vzone	—	GET, POST, PUT, DELETE	System > Network > V-zone
System/Network/ VzoneInterface	—	GET	System > Network > V-zone
System/Config/ Config-Synchronization	—	GET, PUT	System > Config > Config > Syn-chronization
System/Config/HA-Config	—	GET, PUT	System > Config > HA > Config
System/Config/ ConfigSynchronizationTest	—	GET	System > Config > Config-Syn-chronization
System/Config/SNMP	—	GET, PUT	System > Config > SNMP

Resource name	Sub-resource name	Supported methods	Web UI location
System/Config/SnmpNewSnmpCommunity	—	GET, POST, PUT, DELETE	System > Config > SNMP
System/Config/Operation	—	GET, PUT	System > Config > Operation
System/Config/OperationVirtualServer	—	GET	System > Config > Operation
System/Config/OperationServerPolicy	—	GET	System > Config > Operation
System/Config/Advanced	—	GET, PUT	System > Config > Advanced
System/Config/FortiGuard	—	GET, PUT	System > Config > FortiGuard
System/Config/FortiGuardUpdateNow	—	POST	System > Config > FortiGuard
System/Config/SignatureUpdate	—	GET, POST	System > Config > FortiGuard
System/Config/ImportSignatureUpdate	—	POST	System > Config > FortiGuard
System/Config/ReplacementMessage	—	GET, POST, PUT	System > Config > Replacement Message
System/Config/ReplaceMessageImage	—	GET	System > Config > Replacement Message
System/Config/ManageImages	—	GET	System > Config > Replacement Message
System/Config/ReplacementImage	—	POST, PUT	System > Config > Replacement Message
System/Config/HttpResponseCode	—	POST, PUT	System > Config > Replacement Message

Resource name	Sub-resource name	Supported methods	Web UI location
System/Config/ReplaceMessageViewInitParams	—	GET	System > Config > Replacement Message
System/Config/FortiSandbox	—	GET, POST	System > Config > FortiSandbox
System/Config/FortiSandboxTest	—	GET	System > Config > FortiSandbox
System/Admin/Administrators	—	GET, POST, PUT, DELETE	System > Admin > Administrators
System/Admin/AccessProfile	—	GET, POST, PUT, DELETE	System > Admin > Access Profile
System/Admin/AccessProfileList	—	GET	System > Admin > Access Profile
System/Admin/Settings	—	GET, PUT	System > Admin > Settings
System/Admin/AdminDomainCondition	—	GET	
System/Certificates/Local	—	GET, POST, PUT, DELETE	System > Certificates > Local
System/Certificates/LocalList	—	GET	System > Certificates > Local
System/Certificates/LocalDownload	—	GET (Download)	System > Certificates > Local
System/Certificates/LocalOK	—	GET	System > Certificates > Local
System/Certificates/SNI	—	GET, POST, PUT, DELETE	System > Certificates > SNI
System/Certificates/CA	—	GET, POST, PUT, DELETE	System > Certificates > CA

Resource name	Sub-resource name	Supported methods	Web UI location
System/Certificates/CAList	—	GET	System > Certificates > CA
System/Certificates/CAGroup	—	GET, POST, PUT, DELETE	System > Certificates > CA Group
System/Certificates/CAGroupList	—	GET, POST, PUT, DELETE	System > Certificates > CA Group
—	CAGroupEditCAGroupMember	GET, POST, PUT, DELETE	System > Certificates > CA Group
System/Certificates/IntermediateCA	—	GET, POST, PUT, DELETE	System > Certificates > Intermediate CA
System/Certificates/IntermediateCAList	—	GET	System > Certificates > Intermediate CA
System/Certificates/IntermediateCAGroup	—	GET, POST, PUT, DELETE	System > Certificates > Intermediate CA Group
—	IntermediateCAGroupEditCAGroupMember	GET, POST, PUT, DELETE	System > Certificates > Intermediate CA Group
System/Certificates/IntermediateCAGroupList	—	GET	System > Certificates > Intermediate CA Group
System/Certificates/CRL	—	GET, POST, PUT, DELETE	System > Certificates > CRL
System/Certificates/CRLList	—	GET	System > Certificates > CRL
System/Certificates/CertificateVerify	—	GET, POST, PUT, DELETE	System > Certificates > Certificate Verify

Resource name	Sub-resource name	Supported methods	Web UI location
System/Certificates/ CertVerifyList	—	GET	System > Certificates > Certificate Verify
System/Certificates/ URLBasedClient CertificateGroup	—	GET	System > Certificates > URL Certificate
System/Certificates/ CountryRegion	—	GET	
System/Maintenance/ BackupRestore	—	GET, PUT	System > Maintenance > Backup & Restore
System/Maintenance/ RestoreConfiguration	—	POST	System > Maintenance > Backup & Restore
System/Maintenance/ RestoreConfigurationChecker	—	POST	System > Maintenance > Backup & Restore
System/Maintenance/ BackupConfiguration	—	POST	System > Maintenance > Backup & Restore
System/Maintenance/ FirmwareUpgradeDowngrade	—	POST	System > Maintenance > Backup & Restore
System/Maintenance/ BackupRestoreFirmware Boot	—	POST	System > Maintenance > Backup & Restore
System/Maintenance/ RestoreConfigurationChecker	—	POST	System > Maintenance > Backup & Restore
System/Maintenance/ UploadFirmware	—	POST	System > Maintenance > Backup & Restore
System/Maintenance/ DataAnalytics	—	POST	System > Maintenance > Backup & Restore

Resource name	Sub-resource name	Supported methods	Web UI location
System/Maintenance/ FTPBackup	—	GET, POST, PUT, DELETE	System > Main- tenance > FTP Backup
System/Maintenance/ SystemTime	—	GET, PUT	System > Main- tenance > System Time
System/Maintenance/ TimeZone	—	GET	System > Main- tenance > System Time
System/Maintenance/ ConsoleLog	—	GET	System > Main- tenance > Console Log
User/UserGroup/ UserGroup	—	GET, POST, PUT, DELETE	User > User Group > User Group
—	UserGroupEditUser GroupMember	GET, POST, PUT, DELETE	User > User Group > User Group
User/UserGroup/ UserGroupBasic	—	GET	User > User Group > User Group
User/UserGroup/ UserGroupDigest	—	GET	User > User Group > User Group
User/UserGroup/ UserGroupNtlm	—	GET	User > User Group > User Group
User/UserGroup/ AdminGroup	—	GET, POST, PUT, DELETE	User > User Group > Admin Group
—	AdminGroupEditUser GroupMember	GET, POST, PUT, DELETE	User > User Group > Admin Group
User/UserGroup/ AdminUserGroupList	—	GET	User > User Group > Admin Group
User/LocalUser/LocalUser	—	GET, POST, PUT, DELETE	User > Local User > Local User

Resource name	Sub-resource name	Supported methods	Web UI location
User/LocalUser/ LocalUserList	—	GET	User > Local User > Local User
User/RemoteServer/ LDAPServer	—	GET, POST, PUT, DELETE	User > Remote Server > LDAP Server
User/RemoteServer/ LDAPServerList	—	GET	User > Remote Server > LDAP Server
User/RemoteServer/ LdapServerTest	—	POST	User > Remote Server > LDAP Server
User/RemoteServer/ RADIUSServer	—	GET, POST, PUT, DELETE	User > Remote Server > Radius Server
User/RemoteServer/ RADIUSServerList	—	GET	User > Remote Server > Radius Server
User/RemoteServer/ RADIUSServerTest	—	POST	User > Remote Server > Radius Server
User/RemoteServer/ KdcServer	—	GET, POST, PUT, DELETE	User > Remote Server > KDC Server
User/RemoteServer/ NTLMServer	—	GET, POST, PUT, DELETE	User > Remote Server > NTLM Server
User/RemoteServer/ NTLMServerList	—	GET	User > Remote Server > NTLM Server
Policy/ServerPolicy/ ServerPolicy	—	GET, POST, PUT, DELETE	Policy > Server Policy > Server Policy
Policy/ServerPolicy/ ServerPolicyEnable	—	PUT	Policy > Server Policy > Server Policy

Resource name	Sub-resource name	Supported methods	Web UI location
Policy/WebProtectionProfile/InlineProtectionProfile	—	GET, POST, PUT, DELETE	Policy > Web Protection Profile > Inline Protection Profile
Policy/WebProtectionProfile/OfflineProtectionProfile	—	GET, POST, PUT, DELETE	Policy > Web Protection Profile > Offline Protection Profile
Policy/WebProtectionProfile/DbFileExists	—	GET	
ServerObjects/Server/VirtualServer	—	GET, POST, PUT, DELETE	Server Objects > Server > Virtual Server
ServerObjects/Server/VirtualServerPortList	—	GET	Server Objects > Server > Virtual Server
ServerObjects/Server/ServerPool	—	GET, POST, PUT, DELETE	Server Objects > Server > Server Pool
—	EditServerPoolRule	GET, POST, PUT, DELETE	Server Objects > Server > Server Pool
ServerObjects/Server/ServerPoolList	—	GET	Server Objects > Server > Server Pool
ServerObjects/Server/Persistence	—	GET, POST, PUT, DELETE	Server Objects > Server > Persistence Policy
ServerObjects/Server/PersistenceList	—	GET	Server Objects > Server > Persistence Policy
ServerObjects/Server/HTTPContentRoutingPolicy	—	GET, POST, PUT, DELETE	Server Objects > Server > HTTP Content Routing Policy
—	HTTPContentRoutingPolicyNewHTTPContentRouting	GET, POST, PUT, DELETE	Server Objects > Server > HTTP Content Routing Policy



Resource name	Sub-resource name	Supported methods	Web UI location
ServerObjects/ ProtectedHostnames/ ProtectedHostnames	—	GET, POST, PUT, DELETE	Server Objects > Protected Hostnames > Protected Hostnames
—	ProtectedHostnames NewHost	GET, POST, PUT, DELETE	Server Objects > Protected Hostnames > Protected Hostnames
ServerObjects/ ProtectedHostnames/ ProtectedHostnamesNewHostList	—	GET	Server Objects > Protected Hostnames > Protected Hostnames
ServerObjects/ ProtectedHostnames/ HostList	—	GET	Server Objects > Protected Hostnames > Protected Hostnames
ServerObjects/ Service/ HttpServiceList	—	GET	
ServerObjects/ ServerHealthCheck/ ServerHealthCheck	—	GET, POST, PUT, DELETE	Server Objects > Server Health Check > Server Health Check
—	HealthCheckRule	GET, POST, PUT, DELETE	Server Objects > Server Health Check > Server Health Check
ServerObjects/ ServerHealthCheck/ ServerHealthCheckList	—	GET	Server Objects > Server Health Check > Server Health Check
ServerObjects/Service/ Custom	—	GET, POST, PUT, DELETE	Server Objects > Service > Custom
ServerObjects/Global/ KnownSearchEngines	—	GET, PUT	Server Objects > Global > Known Search Engines

Resource name	Sub-resource name	Supported methods	Web UI location
ServerObjects/Global/ PredefinedGlobal WhiteList	—	GET, PUT	Server Objects > Global > Predefined Global White List
ServerObjects/Global/ CustomGlobalWhiteList	—	GET, PUT	Server Objects > Global > Custom Global White List
ServerObjects/ X-Forwarded-For/ X-Forwarded-For	—	GET, POST, PUT, DELETE	Server Objects > X- Forward-For
—	XForwardedFor NewXForwardedForIP	GET, POST, PUT, DELETE	Server Objects > X- Forward-For
ApplicationDelivery/ URLRewritingPolicy/ URLRewritingPolicy	—	GET, POST, PUT, DELETE	Application Delivery > URL Rewriting Policy > URL Rewrit- ing Policy
—	URLRewritingPolicy NewURLRewritingItem	GET, POST, PUT, DELETE	Application Delivery > URL Rewriting Policy > URL Rewrit- ing Policy
ApplicationDelivery/ URLRewritingPolicy/ URLRewritingRule	—	GET, POST, PUT, DELETE	Application Delivery > URL Rewriting Policy > URL Rewrit- ing Rule
—	URLRewritingRule NewURLRewriting Condition	GET, POST, PUT, DELETE	Application Delivery > URL Rewriting Policy > URL Rewrit- ing Rule
ApplicationDelivery/ URLRewritingPolicy/ URLRewritingRuleList	—	GET	Application Delivery > URL Rewriting Policy > URL Rewrit- ing Rule
ApplicationDelivery/ AuthenticationPolicy/ AuthenticationPolicy	—	GET, POST, PUT, DELETE	Application Delivery > Authentication Policy > Authentic- ation Policy

Resource name	Sub-resource name	Supported methods	Web UI location
---	AuthenticationPolicy NewAuthentication PolicyMember	GET, POST, PUT, DELETE	Application Delivery > Authentication Policy > Authentica- tion Policy
ApplicationDelivery/ AuthenticationPolicy/ AuthenticationRule	---	GET, POST, PUT, DELETE	Application Delivery > Authentication Policy > Authentica- tion Rule
---	AuthenticationRule NewAuthentication RuleMember	GET, POST, PUT, DELETE	Application Delivery > Authentication Policy > Authentica- tion Rule
ApplicationDelivery/ AuthenticationPolicy/ AuthenticationRuleList	---	GET	Application Delivery > Authentication Policy > Authentica- tion Rule
ApplicationDelivery/ SitePublish/ SitePublishPolicy	---	GET, POST, PUT, DELETE	Application Delivery > Site Publish > Site Publish Policy
---	SitePublishPolicy NewPublishedSiteRule	GET, POST, PUT, DELETE	Application Delivery > Site Publish > Site Publish Policy
ApplicationDelivery/ SitePublish/ SitePublishRule	---	GET, POST, PUT, DELETE	Application Delivery > Site Publish > Site Publish Rule
ApplicationDelivery/ SitePublish/ SitePublishRuleList	---	GET	Application Delivery > Site Publish > Site Publish Rule
ApplicationDelivery/ SitePublish/ SitePublishRuleStatus	---	POST, PUT	Application Delivery > Site Publish > Site Publish Rule
ApplicationDelivery/ SitePublish/ KeytabFile	---	GET, POST, PUT, DELETE	Application Delivery > Site Publish > Keytab File
ApplicationDelivery/ SitePublish/ KeytabFileList	---	GET	Application Delivery > Site Publish > Keytab File

Resource name	Sub-resource name	Supported methods	Web UI location
ApplicationDelivery/ SitePublish/ ImportKeytabFile	—	POST	Application Delivery > Site Publish > Keytab File
ApplicationDelivery/ Compression/ FileCompressPolicy	—	GET, POST, PUT, DELETE	Application Delivery > Compression > File Compress Policy
—	FileCompressPolicy NewFileCompressPolicy	GET, POST, PUT, DELETE	Application Delivery > Compression > File Compress Policy
ApplicationDelivery/ Compression/ FileUncompressPolicy	—	GET, POST, PUT, DELETE	Application Delivery > Compression > File Uncompress Policy
—	FileUncompressPolicy EditContentType	GET, POST, PUT, DELETE	Application Delivery > Compression > File Uncompress Policy
ApplicationDelivery/ Compression/ ExclusionRule	—	GET, POST, PUT, DELETE	Application Delivery > Compression > Exclusion Rule
—	ExclusionRuleNewURL	GET, POST, PUT, DELETE	Application Delivery > Compression > Exclusion Rule
ApplicationDelivery/ Compression/ ExclusionRuleList	—	GET	Application Delivery > Compression > Exclusion Rule
ApplicationDelivery/ Caching/ WebCachePolicy	—	GET, POST, PUT, DELETE	Application Delivery > Caching > Web Cache Policy
—	WebCachePolicy NewWebCachePolicy ItemRule	GET, POST, PUT, DELETE	Application Delivery > Caching > Web Cache Policy
ApplicationDelivery/ Caching/ WebCacheException	—	GET, POST, PUT, DELETE	Application Delivery > Caching > Web Cache Exception

Resource name	Sub-resource name	Supported methods	Web UI location
---	WebCacheExceptionNew WebCacheExceptionRule	GET, POST, PUT, DELETE	Application Delivery > Caching > Web Cache Exception
ApplicationDelivery/ Caching/ WebCacheExceptionList	---	GET	Application Delivery > Caching > Web Cache Exception
WebProtection/ KnownAttacks/Signatures	---	GET, POST, PUT, DELETE	Web Protection > Known Attacks > Sig- natures
WebProtection/ KnownAttacks/ AttacksSignaturesAdvanced	Dictionaries	GET, POST	Web Protection > Known Attacks > Sig- natures
---	SignatureAlertOnly	GET	Web Protection > Known Attacks > Sig- natures
---	AttacksSignatures AdvancedSetting	GET	Web Protection > Known Attacks > Sig- natures
---	SignatureDisabled	GET, POST, PUT, DELETE	Web Protection > Known Attacks > Sig- natures
---	SignatureAlertOnly	GET, POST, PUT, DELETE	Web Protection > Known Attacks > Sig- natures
---	SignatureSearch	GET, POST	Web Protection > Known Attacks > Sig- natures
WebProtection/ KnownAttacks/ CustomSignatureGroup	---	GET, POST, PUT, DELETE	Web Protection > Known Attacks > Custom Signature Group
---	CustomSignatureGroup NewProtectionGroup Member	GET, POST, PUT, DELETE	Web Protection > Known Attacks > Custom Signature Group

Resource name	Sub-resource name	Supported methods	Web UI location
WebProtection/ KnownAttacks/ CustomSignatureGroupList	——	GET	Web Protection > Known Attacks > Custom Signature Group
WebProtection/ KnownAttacks/ CustomSignature	——	GET, POST, PUT, DELETE	Web Protection > Known Attacks > Custom Signature
——	CustomSignatureTarget	GET, POST, PUT, DELETE	Web Protection > Known Attacks > Custom Signature
WebProtection/ KnownAttacks/ CustomSignatureList	——	GET	Web Protection > Known Attacks > Custom Signature
WebProtection/ AdvancedProtection/ CustomPolicy	——	GET, POST, PUT, DELETE	Web Protection > Advanced Protection > Custom Policy
——	CustomPolicyNewCustom AccessItem	GET, POST, PUT, DELETE	Web Protection > Advanced Protection > Custom Policy
WebProtection/ AdvancedProtection/ CustomRule	——	GET, POST, PUT, DELETE	Web Protection > Advanced Protection > Custom Rule
——	CustomRuleNewCustom AccessRule	GET, POST, PUT, DELETE	Web Protection > Advanced Protection > Custom Rule
WebProtection/ AdvancedProtection/ CustomRuleList	——	GET	Web Protection > Advanced Protection > Custom Rule
WebProtection/ AdvancedProtection/ ContentTypeList	——	GET	Web Protection > Advanced Protection > Custom Rule
WebProtection/ AdvancedProtection/ PaddingOracleProtection	——	GET, POST, PUT, DELETE	Web Protection > Advanced Protection > Padding Oracle Protection

Resource name	Sub-resource name	Supported methods	Web UI location
---	NewPaddingItem	GET, POST, PUT, DELETE	Web Protection > Advanced Protection > Padding Oracle Protection
WebProtection/ InputValidation/ ParameterValidation Policy	---	GET, POST, PUT, DELETE	Web Protection > Input Validation > Parameter Validation Policy
---	ParameterValidation PolicyNewParameter ValidationRule	GET, POST, PUT, DELETE	Web Protection > Input Validation > Parameter Validation Policy
WebProtection/ InputValidation/ ParameterValidationRule	---	GET, POST, PUT, DELETE	Web Protection > Input Validation > Parameter Validation Rule
---	ParameterValidation RuleNewRule	GET, POST, PUT, DELETE	Web Protection > Input Validation > Parameter Validation Rule
WebProtection/ InputValidation/ HiddenFieldsPolicy	---	GET, POST, PUT, DELETE	Web Protection > Input Validation > Hidden Fields Policy
---	HiddenFieldsPolicy CreateHidden FieldsRule	GET, POST, PUT, DELETE	Web Protection > Input Validation > Hidden Fields Policy
WebProtection/InputValidation/ HiddenFieldsRule	---	GET, POST, PUT, DELETE	Web Protection > Input Validation > Hidden Fields Rule
---	PostURL	GET, POST, PUT, DELETE	Web Protection > Input Validation > Hidden Fields Rule
---	Fields	GET, POST, PUT, DELETE	Web Protection > Input Validation > Hidden Fields Rule
WebProtection/InputValidation/ HiddenFieldsRuleList	---	GET	Web Protection > Input Validation > Hidden Fields Rule

Resource name	Sub-resource name	Supported methods	Web UI location
WebProtection/ InputValidation/ FileUploadRestriction Policy	—	GET, POST, PUT, DELETE	Web Protection > Input Validation > File Upload Restriction Policy
—	FileUploadRestriction PolicyNewFileUpload RestrictionPolicy	GET, POST, PUT, DELETE	Web Protection > Input Validation > File Upload Restriction Policy
WebProtection/ InputValidation/ FileUploadRestrictionRule	—	GET, POST, PUT, DELETE	Web Protection > Input Validation > File Upload Restriction Rule
—	FileUploadRestriction RuleItem	GET, POST, PUT, DELETE	Web Protection > Input Validation > File Upload Restriction Rule
WebProtection/Protocol/ HTTPProtocolConstraints	—	GET, POST, PUT, DELETE	Web Protection > Protocol > HTTP Protocol Constraints
WebProtection/Protocol/ HTTPConstraintsException	—	GET, POST, PUT, DELETE	Web Protection > Protocol > HTTP Constraints Exception
—	HTTPConstraints ExceptionNewHTTP ConstraintsException Rule	GET, POST, PUT, DELETE	Web Protection > Protocol > HTTP Constraints Exception
WebProtection/Access/ BruteForce	—	GET, POST, PUT, DELETE	Web Protection > Access > Brute Force
—	BruteForceNewLoginPage	GET, POST, PUT, DELETE	Web Protection > Access > Brute Force
WebProtection/Access/ URLAccessPolicy	—	GET, POST, PUT, DELETE	Web Protection > Access > URL Access Policy



Resource name	Sub-resource name	Supported methods	Web UI location
---	URLAccessPolicyNew URLAccessItem	GET, POST, PUT, DELETE	Web Protection > Access > URL Access Policy
WebProtection/Access/ URLAccessRule	---	GET, POST, PUT, DELETE	Web Protection > Access > URL Access Rule
---	URLAccessRuleNew URLAccessCondition	GET, POST, PUT, DELETE	Web Protection > Access > URL Access Rule
WebProtection/Access/ URLAccessRuleList	---	GET	Web Protection > Access > URL Access Rule
WebProtection/Access/ PageAccess	---	GET, POST, PUT, DELETE	Web Protection > Access > Page Access
---	PageAccessNewRule	GET, POST, PUT, DELETE	Web Protection > Access > Page Access
WebProtection/Access/ StartPages	---	GET, POST, PUT, DELETE	Web Protection > Access > Start Pages
---	StartPagesNewPage	GET, POST, PUT, DELETE	Web Protection > Access > Start Pages
WebProtection/Access/ AllowMethodPolicy	---	GET, POST, PUT, DELETE	Web Protection > Access > Allow Method Policy
WebProtection/Access/ AllowMethodExceptions	---	GET, POST, PUT, DELETE	Web Protection > Access > Allow Method Exceptions
---	AllowMethod Exceptions NewAllowMethod Exception	GET, POST, PUT, DELETE	Web Protection > Access > Allow Method Exceptions
WebProtection/Access/ AllowMethodExceptionsList	---	GET	Web Protection > Access > Allow Method Exceptions

Resource name	Sub-resource name	Supported methods	Web UI location
WebProtection/Access/ IPList	—	GET, POST, PUT, DELETE	Web Protection > Access > IP List
—	IPListCreateIPList PolicyMember	GET, POST, PUT, DELETE	Web Protection > Access > IP List
WebProtection/Access/ GeoIP	—	GET, POST, PUT, DELETE	Web Protection > Access > Geo IP
—	AddCountry	GET, POST, PUT, DELETE	Web Protection > Access > Geo IP
WebProtection/Access/ GeoIPExceptionsList	—	GET	Web Protection > Access > Geo IP Exceptions
WebProtection/Access/ SeverityList	—	GET	
WebProtection/ WebAnti-Defacement/ AntiDefacement	—	GET, POST, PUT, DELETE	Web Protection > Web Anti-Deface- ment > Anti Deface- ment
WebProtection/ WebAnti-Defacement/ AntiDefacementBackupList	—	GET	Web Protection > Web Anti-Deface- ment > Anti Deface- ment
WebProtection/ WebAnti-Defacement/ AntiDefacementChangeList	—	GET	Web Protection > Web Anti-Deface- ment > Anti Deface- ment
WebProtection/ WebAnti-Defacement/ AntiDefacementTest	—	POST	Web Protection > Web Anti-Deface- ment > Anti Deface- ment
WebProtection/ WebAnti-Defacement/ AntiDefacementFileFilter	—	GET, POST, PUT, DELETE	Web Protection > Web Anti-Deface- ment > Anti Deface- ment File Filter

Resource name	Sub-resource name	Supported methods	Web UI location
DoSProtection/ Application/ HTTPAccessLimit	—	GET, POST, PUT, DELETE	Dos Protection > Application > HTTP Access Limit
DoSProtection/ Application/ MaliciousIPs	—	GET, POST, PUT, DELETE	Dos Protection > Application > Mali- cious IPs
DoSProtection/ Application/ HTTPFloodPrevention	—	GET, POST, PUT, DELETE	Dos Protection > Application > HTTP Flood Prevention
DoSProtection/Network/ TCPFloodPrevention	—	GET, POST, PUT, DELETE	Dos Protection > Net- work > TCP Flood Prevention
DoSProtection/ DoSProtectionPolicy/ DoSProtectionPolicy	—	GET, POST, PUT, DELETE	Dos Protection > Dos Protection Policy > Dos Protection Policy
IPReputation/ IPReputation/Policy	—	GET, PUT	IP Reputation > IP Reputation > Policy
IPReputation/ IPReputation/Exceptions	—	GET, POST, PUT, DELETE	IP Reputation > IP Reputation > Excep- tion
AutoLearn/ AutoLearnProfile/ AutoLearnProfile	—	GET, POST, PUT, DELETE	Auto Learn > Auto Learn Profile > Auto Learn Profile
AutoLearn/ AutoLearnReport/ AutoLearnReport	—	GET, POST, PUT, DELETE	Auto Learn > Auto Learn Report > Auto Learn Report
	Dictionaries	GET	Auto Learn > Auto Learn Report > Auto Learn Report
	Getnode	GET	Auto Learn > Auto Learn Report > Auto Learn Report
	Domain	GET, POST, PUT	Auto Learn > Auto Learn Report > Auto Learn Report

Resource name	Sub-resource name	Supported methods	Web UI location
	GeneratePDF	GET	Auto Learn > Auto Learn Report > Auto Learn Report
	SubAttack	GET, POST, PUT	Auto Learn > Auto Learn Report > Auto Learn Report
	UrlPage	POST, PUT	Auto Learn > Auto Learn Report > Auto Learn Report
	ParamChange	POST, PUT	Auto Learn > Auto Learn Report > Auto Learn Report
	AccessChange	POST, PUT	Auto Learn > Auto Learn Report > Auto Learn Report
	generateConfig	POST, PUT	Auto Learn > Auto Learn Report > Auto Learn Report
	AttackChange	POST, PUT	Auto Learn > Auto Learn Report > Auto Learn Report
AutoLearn/ AutoLearnProfile/ AutoLearnChart	—	GET	Auto Learn > Auto Learn Profile > Auto Learn Profile
AutoLearn/ PredefinedPattern/ DataTypeGroup	—	GET, POST, PUT, DELETE	Auto Learn > Pre-defined Pattern > Data Type Group
AutoLearn/ PredefinedPattern/ DataTypeGroupList	—	GET	Auto Learn > Pre-defined Pattern > Data Type Group
AutoLearn/ PredefinedPattern/ DataType	—	GET	Auto Learn > Pre-defined Pattern > Data Type
AutoLearn/ PredefinedPattern/ DataTypeList	—	GET	Auto Learn > Pre-defined Pattern > Data Type

Resource name	Sub-resource name	Supported methods	Web UI location
AutoLearn/ PredefinedPattern/ URLPattern	——	GET	Auto Learn > Pre-defined Pattern > URL Pattern
AutoLearn/ PredefinedPattern/ SuspiciousURL	——	GET, POST, PUT, DELETE	Auto Learn > Pre-defined Pattern > Suspicious URL
AutoLearn/ PredefinedPattern/ SuspiciousURLList	——	GET	Auto Learn > Pre-defined Pattern > Suspicious URL
AutoLearn/ CustomPattern/ DataType	——	GET, POST, PUT, DELETE	Auto Learn > Custom Pattern > Data Type
AutoLearn/ CustomPattern/ CustomDataTypeList	——	GET	Auto Learn > Custom Pattern > Data Type
AutoLearn/ CustomPattern/ SuspiciousURLPolicy	——	GET, POST, PUT, DELETE	Auto Learn > Custom Pattern > Suspicious URL Policy
——	SuspiciousURLPolicy EditSuspicious URLRule	GET, POST, PUT, DELETE	Auto Learn > Custom Pattern > Suspicious URL Policy
AutoLearn/ CustomPattern/ SuspiciousURLPolicyList	——	GET	Auto Learn > Custom Pattern > Suspicious URL Policy
AutoLearn/ CustomPattern/ SuspiciousURLRule	——	GET, POST, PUT, DELETE	Auto Learn > Custom Pattern > Suspicious URL Rule
AutoLearn/ CustomPattern/ SuspiciousURLRuleList	——	GET	Auto Learn > Custom Pattern > Suspicious URL Policy
AutoLearn/ ApplicationTemplates/ ApplicationPolicy	——	GET, POST, PUT, DELETE	Auto Learn > Application Template > Application Policy
——	ApplicationPolicy NewApplicationRule	GET, POST, PUT, DELETE	Auto Learn > Application Template > Application Policy

Resource name	Sub-resource name	Supported methods	Web UI location
AutoLearn/ ApplicationTemplates/ ApplicationPolicyList	—	GET	Auto Learn > Application Template > Application Policy
AutoLearn/ ApplicationTemplates/ URLReplacer	—	GET, POST, PUT, DELETE	Auto Learn > Application Template > URL Replacer
AutoLearn/ ApplicationTemplates/ URLReplacerList	—	GET	Auto Learn > Application Template > URL Replacer
WebVulnerabilityScan/ WebVulnerabilityScan/ WebVulnerabilityScanPolicy	—	GET, POST, PUT, DELETE	Web Vulnerability Scan > Web Vulnerability Scan > Web Vulnerability Scan Policy
WebVulnerabilityScan/ WebVulnerabilityScan/ WebVulnerabilityScanProfile	—	GET, POST, PUT, DELETE	Web Vulnerability Scan > Web Vulnerability Scan > Web Vulnerability Scan Profile
WebVulnerabilityScan/ WebVulnerabilityScan/ WebVulnerabilityScanSchedule	—	GET, POST, PUT, DELETE	Web Vulnerability Scan > Web Vulnerability Scan > Web Vulnerability Scan Schedule
WebVulnerabilityScan/ WebVulnerabilityScan/ ScanHistory	—	GET, POST, PUT, DELETE	Web Vulnerability Scan > Web Vulnerability Scan > Scan History
LogReport/LogPolicy/ EmailPolicy	—	GET, POST, PUT, DELETE	Log & Report > Log Policy > Email Policy
LogReport/LogPolicy/ AlertMailList	—	GET	Log & Report > Log Policy > Email Policy
LogReport/LogPolicy/ SyslogPolicy	—	GET, POST, PUT, DELETE	Log & Report > Log Policy > Syslog Policy

Resource name	Sub-resource name	Supported methods	Web UI location
---	SyslogServer	GET, POST, PUT, DELETE	Log & Report > Log Policy > Syslog Policy
LogReport/LogPolicy/SIEMPolicy	---	GET, POST, PUT, DELETE	Log & Report > Log Policy > SIEM Policy
LogReport/LogPolicy/FortiAnalyzerPolicy	---	GET, POST, PUT, DELETE	Log & Report > Log Policy > FortiAnalyzer Policy
LogReport/LogPolicy/TriggerPolicy	---	GET, POST, PUT, DELETE	Log & Report > Log Policy > Trigger Policy
LogReport/LogPolicy/TriggerList	---	GET	Log & Report > Log Policy > Trigger Policy
LogReport/LogConfig/GlobalLogSettings	---	GET, PUT	Log & Report > Log Config > Global Log Settings
LogReport/LogConfig/OtherLogSettings	---	GET, PUT	Log & Report > Log Config > Other Log Settings
LogReport/LogConfig/SensitiveDataLogging	---	GET, POST, PUT, DELETE	Log & Report > Log Config > Sensitive Data Logging
LogReport/LogConfig/SensitiveDataLoggingRuleType	---	GET, POST, PUT, DELETE	Log & Report > Log Config > Sensitive Data Logging
LogReport/LogAccess/Event?offset=0&size=30	---	GET	Log & Report > Log Access > Event
<b>Cookie:</b> LogName=eelog.log  <b>Parameters:</b>  offset – Start line ID  size – Total number of lines on each page			

Resource name	Sub-resource name	Supported methods	Web UI location
LogReport/LogAccess/Attack?offset=0&size=30			
<b>Cookie:</b> LogName=alog.log <b>Parameters:</b> offset – Start line ID size – Total number of lines on each page	—	GET	Log & Report > Log Access > Attack
LogReport/LogAccess/LogAccessAttackDetail	—	GET	Log & Report > Log Access > Attack
LogReport/LogAccess/AggregatedAttack?day=3&currentPage=1&startLine=0			
<b>Cookie:</b> LogName=alog.log <b>Parameters:</b> day – Number of days on each page currentPage – Number of page to display startLine – Start line number	—	GET	Log & Report > Log Access > Aggregated Attack
LogReport/LogAccess/Traffic?offset=0&size=30	—	GET	Log & Report > Log Access > Traffic
<b>Cookie:</b> LogName=tlog.log <b>Parameters:</b> offset – Start line ID size – Total number of lines on each page			
LogReport/LogAccess/LogAccessTrafficDetail	—	GET	Log & Report > Log Access > Traffic
LogReport/LogAccess/LogDownload	—	GET	
LogReport/LogAccess/LogManagement	—	GET, DELETE	



Resource name	Sub-resource name	Supported methods	Web UI location
LogReport/LogAccess/ LogAccessEventPermission	—	GET	Log & Report > Log Access > Download
LogReport/LogAccess/ Download	—	GET	Log & Report > Log Access > Download
LogReport/LogAccess/ DownloadFile	—	GET	Log & Report > Log Access > Download
LogReport/ReportConfig/ ReportConfig	—	GET, POST, PUT, DELETE	Log & Report > Report Config > Report Config
LogReport/ReportConfig/ ReportConfig	—	GET, POST, PUT, DELETE	Log & Report > Report Config > Report Config
LogReport/ReportConfig/ ReportConfigCustomLogoList	—	GET	Log & Report > Report Config > Report Config
LogReport/ReportConfig/ ReportConfigLogoUpload	—	POST	Log & Report > Report Config > Report Config
LogReport/ReportBrowse/ ReportBrowse	—	GET	Log & Report > Report Browse > Report Browse
LogReport/Monitor/ data_analytics	—	GET	Log & Report > Monitor > Data Analytics
—	time_trend	GET	Log & Report > Monitor > Data Analytics
—	type_view	GET	Log & Report > Monitor > Data Analytics
—	data_view	GET	Log & Report > Monitor > Data Analytics
—	attack	GET	Log & Report > Monitor > Data Analytics
LogReport/Monitor/ DataAnalyticsPermission	—	GET	Log & Report > Monitor > Data Analytics

Resource name	Sub-resource name	Supported methods	Web UI location
LogReport/Monitor/BotAnalysis	—	GET	Log & Report > Monitor > Bot Analysis
LogReport/Monitor/BlockedIPs	—	GET	Log & Report > Monitor > Blocked IPs

## Examples of changing settings

### Retrieve all static routes (GET)

#### Command

```
curl -H "Authorization: YWRtaW46" -k  
"https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute"
```

#### Request header

```
GET https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute HTTP/1.1  
User-Agent: Fiddler  
Authorization: YWRtaW46  
Host: 172.22.10.74:90
```

#### Response

```
HTTP/1.1 200 OK  
Server: openresty/1.5.8.1  
Date: Thu, 14 Aug 2014 17:03:34 GMT  
Content-Type: application/json  
Connection: keep-alive  
Content-Length: 115  
  
[  
  {  
    "_id": 1,  
    "id": 1,  
    "destinationIpMask": "0.0.0.0/0",  
    "gateway": "172.22.10.1",  
    "interface": port1  
  }  
]
```

## Create a new static route (POST)

### Command

```
curl -X POST -H "Authorization: YWRtaW46" -H "ContentType: application/json" -k -d '{
  "destinationIpMask": "0.0.0.0/0", "gateway": "172.22.10.1", "interface": "port1"}'
https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute"
```

### Request header

```
POST https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute HTTP/1.1
User-Agent: Fiddler
Authorization: YWRtaW46
Host: 172.22.10.74:90
Content-Length: 92
```

```
{
  "destinationIpMask": "0.0.0.0/0",
  "gateway": "172.22.10.1",
  "interface": port1
}
```

### Response

```
HTTP/1.1 200 OK
Server: openresty/1.5.8.1
Date: Thu, 14 Aug 2014 17:05:11 GMT
Content-Type: application/json
Connection: keep-alive
Content-Length: 94
```

```
{
  "destinationIpMask": "0.0.0.0/0",
  "gateway": "172.22.10.1",
  "interface": port1,
  "_id": 1
}
```

## Update an existing static route (PUT)

### Command

```
curl -X PUT -H "Authorization: YWRtaW46" -H "ContentType: application/json" -k -d '{"_id":
  "1", "destinationIpMask": "0.0.0.0/0", "gateway": "172.22.10.2", "interface": "port1"}'
https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute/1"
```

### Request header

```
PUT https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute/1 HTTP/1.1
User-Agent: Fiddler
```

```
Authorization: YWRtaW46
Host: 172.22.10.74:90
Content-Length: 92
```

```
{
  "destinationIpMask": "0.0.0.0/0",
  "gateway": "172.22.10.2",
  "interface": port1
}
```

### Response

```
HTTP/1.1 200 OK
Server: openresty/1.5.8.1
Date: Thu, 14 Aug 2014 17:05:41 GMT
Content-Type: application/json
Connection: keep-alive
Content-Length: 94
```

```
{
  "destinationIpMask": "0.0.0.0/0",
  "gateway": "172.22.10.2",
  "interface": port1,
  "_id": 2
}
```

## Delete an existing static route (DELETE)

### Command

```
curl -k -X DELETE -H "Authorization: YWRtaW46"
  "https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute/1"
```

### Request header

```
DELETE https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute/1 HTTP/1.1
User-Agent: Fiddler
Authorization: YWRtaW46
Host: 172.22.10.74:90
```

### Response

```
HTTP/1.1 200 OK
Server: openresty/1.5.8.1
Date: Thu, 14 Aug 2014 17:06:51 GMT
Content-Type: application/json
Connection: keep-alive
Content-Length: 18
```

```
{
  "affected": 1
}
```

```
}
```

## Request failures

### Unsupported method

If a request fails because the method is unsupported, the HTTP response code is 405 (Not Allowed).

For example:

#### Command

```
curl -k -H "Authorization: YWRtaW46"  
"https://172.22.10.74:90/api/v1.0/System/Maintenance/RestoreConfiguration"
```

#### Request header

```
GET https://172.22.10.74:90/api/v1.0/System/Maintenance/RestoreConfiguration HTTP/1.1  
User-Agent: Fiddler  
Authorization: YWRtaW46  
Host: 172.22.10.74:90
```

#### Response

```
HTTP/1.1 405 Not Allowed  
Server: openresty/1.5.8.1  
Date: Thu, 14 Aug 2014 17:08:25 GMT  
Content-Type: text/html  
Content-Length: 178  
Connection: keep-alive  
  
<html>  
<head><title>405 Not Allowed</title></head>  
<body bgcolor="white">  
<center><h1>405 Not Allowed</h1></center>  
<hr><center>openresty/1.5.8.1</center>  
</body>  
</html>
```

### Other failure

If a RESTful API request fails for any other reason, the response contains the application error code and the HTTP response code 500 (Internal Server Error).

For example:

#### Command

```
curl -X POST -H "Authorization: YWRtaW46" -H "ContentType: application/json" -k -d '  
{ "destinationIpMask": "0.0.0.0/0", "gateway": "172.22.10.3", "interface": "port1" }'  
"https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute"
```

## Request header

```
POST https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute HTTP/1.1
User-Agent: Fiddler
Authorization: YWRtaW46
Host: 172.22.10.74:90
Content-Length: 92

{
  "destinationIpMask": "0.0.0.0/0",
  "gateway": "172.22.10.3",
  "interface": port1
}
```

## Response

```
HTTP/1.1 500 Internal Server Error
Server: openresty/1.5.8.1
Date: Thu, 14 Aug 2014 17:07:34 GMT
Content-Type: application/json
Transfer-Encoding: chunked
Connection: keep-alive

{
  "destinationIpMask": "0.0.0.0/0",
  "gateway": "172.22.10.3",
  "interface": port1,
  "msg": "Duplicate IP address"
}
```



High Performance Network Security



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